

ABSTRACT OF THE DISCLOSURE

There is provided a current source circuit in which a outflow current of an output terminal is equal to an inflow current thereof. The current source circuit includes a first transistor group converting a reference current from a reference current source into a voltage and a first transistor having a current mirror relationship with the first transistor group, and allowing an output current to flow therethrough. An error amplifier compares a voltage generated in the first transistor group and supplied to one input terminal with a voltage supplied to the other input terminal. A second transistor is driven with an output voltage of the error amplifier. A third transistor is driven with the output voltage of the error amplifier, and allows an output current to flow therethrough in a direction opposite to the output current of the first transistor with respect to an output terminal. A second transistor group converts a current flowing through the second transistor into a voltage to supply the voltage to the other input terminal of the error amplifier.